<u>Abstract</u>

The invention relates to the use of osmolytes, in particular ectoine and hydroxyectoine, as well as their pharmacologically compatible salts and/or derivatives having equivalent effects, for producing dermatological preparations such as tinctures, lotions, O/W emulsions, W/O emulsions, creams, ointments, hydrogels or sprays for the topical prophylaxis, care and/or treatment of neurodermatitis.